

**USE OF IONIC LIQUIDS TO SEPARATE OLEFINS, DIOLEFINS
AND AROMATICS**

ABSTRACT OF THE DISCLOSURE

The present invention relates to the separation of diolefins, and lower aromatics from mixed streams of hydrocarbons using ionic liquids and metal complexes. The present invention provides a novel method to separate diolefins and lower aromatics from other hydrocarbyl streams which may contain small amounts of water.